

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231

ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
01 May 2000 (01.05.00)

International application No.
PCT/US99/10854

International filing date (day/month/year)
17 May 1999 (17.05.99)

Applicant

BUSCH, Alfred et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	16 March 2000 (16.03.00)
	in a notice effecting later election filed with the International Bureau on:
	•
2.	The election X was
	was not .
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	•

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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PATENT COOPERATION TREATY



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.							
CM2107F/JH International application No.	ACTION International filing date (day/month/year	(Earliest) Priority Date (day/month/year)					
1							
PCT/US 99/10854	17/05/1999	30/09/1998					
Applicant	Applicant						
THE BROOTER & SAME STATE							
THE PROCTER & GAMBLE COMP	ANY et al.						
This International Search Report has bee according to Article 18. A copy is being tra		Authority and is transmitted to the applicant					
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in	this report.					
Basis of the report							
	international search was carried out on the less otherwise indicated under this item.	e basis of the international application in the					
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation	n of the international application furnished to this					
was carried out on the basis of th	e sequence listing :	he international application, the international search					
	onal application in written form. ernational application in computer readable	e form					
	this Authority in written form.						
	this Authority in computer readble form.						
the statement that the sul	· ·	ing does not go beyond the disclosure in the					
the statement that the infe	ormation recorded in computer readable fo	orm is identical to the written sequence listing has been					
2. Certain claims were fou	nd unsearchable (See Box I).						
3. Unity of invention is lac	king (see Box II).						
4. With regard to the title,							
the text is approved as su	bmitted by the applicant.						
	shed by this Authority to read as follows:						
	/OR FABRIC CARE COMPOSIT] SITION AID, AND A POLYMER	IONS COMPRISING A CHEMICAL ENTITY,					
5. With regard to the abstract,							
the text has been establis	the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. The figure of the drawings to be pub	lished with the abstract is Figure No.	 _					
as suggested by the appl	icant.	None of the figures.					
because the applicant fai	led to suggest a figure.						
because this figure better	characterizes the invention.						

INTERNATIONAL SEARCH REPORT

International Application No T/US 99/10854

A. CLASSIFICATION OF SUBJECT N IPC 7 C11D3/386

C12N9/42

C11D3/37

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C11D C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 24427 A (PROCTER & GAMBLE COMPANY) 10 July 1997 (1997-07-10) page 10, line 5 -page 11, paragraph 1 page 8, paragraph 1 -page 10, paragraph 2 page 2, paragraph 5 -page 4, paragraph 1 page 5, paragraph 2 -page 6, line 32 page 12, paragraph 3 page 21, line 7 - line 10 page 26, paragraph 2 -page 27, paragraph 2 page 35, paragraph 2 page 36 page 32, line 17 - line 21	1-10,12,
·		

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents; "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family
Date of the actual completion of the international search 15 September 1999	Date of mailing of the international search report $30/09/1999$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Ketterer, M

INTERNATIONAL SEARCH REPORT

International Application No T/US 99/10854

	citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication,where appropriate, of the relevant passages	nelevant to claim No.
A	WO 98 00500 A (UNILEVER PLC) 8 January 1998 (1998-01-08) cited in the application page 4, line 9 - line 28 page 6, line 7 - line 26 page 5, line 4 - line 12 page 7, line 22 - line 29 page 8, line 6 - line 18 claim 17	1-5,10, 13
A	WO 96 13524 A (YEDA RES & DEV ;UNIV RAMOT (IL); TECHNION RES & DEV FOUNDATION (IL) 9 May 1996 (1996-05-09) claims 1-3,10,14	1-3
Α	EP 0 319 957 A (GLUETECH APS) 14 June 1989 (1989-06-14) claims 1,15,19	1,2,7
Α	DE 21 09 881 A (KONINKLIJKE GIST SPIRITUS) 23 September 1971 (1971-09-23) claims	1,11-13
A	WO 93 22417 A (UNILEVER PLC ;UNILEVER NV (NL)) 11 November 1993 (1993-11-11) page 22, line 19 - line 29 claims	1,11-13

INTERNATIONAL SEARCH REPORT

International Application No Information on patent family members T/US 99/10854 Patent family Patent document Publication Publication member(s) cited in search report date date 10-07-1997 ΑU 4744996 A 28-07-1997 WO 9724427 Α BR 9510680 A 30-03-1999 EP 0877787 A 18-11-1998 JP 11502256 T 23-02-1999 WO 9800500 08-01-1998 ΑU 3438197 A 21-01-1998 Α ΑU 4011495 A WO 9613524 Α 09-05-1996 23-05-1996 EP 0319957 14-06-1989 DK 641487 A 08-06-1989 Α 97680 T 15-12-1993 ΑT CA 1335804 A 06-06-1995 DE 3885908 D 05-01-1994 DE 3885908 T 24-03-1994 DK 138190 A,B, 06-06-1990 WO 8905329 A 15-06-1989 EP 0390841 A 10-10-1990 JP 3502938 T 04-07-1991 US 5427779 A 27-06-1995 DE 2109881 23-09-1971 AT 318523 B 25-10-1974 Α 344299 B 10-07-1978 AT AΤ 508672 A 15-11-1977 763681 A 02-09-1971 BE CA 20-04-1976 987613 A 572494 A CH 13-02-1976 DK 131472 B 21-07-1975 DK 135325 B 04-04-1977 01-03-1974 ES 388808 A FR 2084033 A 17-12-1971 GB 1353317 A 15-05-1974 ΙE 34979 B 15-10-1975 LU 62698 A 20-08-1971 7102726 A NL 07-09-1971 NL7313980 A,B 27-12-1973 PH 10749 A 01-09-1977 R₀ 58839 A 15-09-1975 397194 B SE 24-10-1977 TR 16938 A 01-11-1973 7101357 A 28-06-1972 ZA WO 9322417 11-11-1993 Α US 5281357 A 25-01-1994 4261393 A 29-11-1993 ΑU 69303293 D 25-07-1996 DE DE 69303293 T 21-11-1996 ĒΡ 0672102 A 20-09-1995 16-10-1996 ES 2091001 T JP 7506137 T 06-07-1995 US 5281355 A 25-01-1994

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31-01-1995

29-10-1994

PATENT COOPERATION TATY



REC'D 3 0 NOV 2000

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's	or age	nt's file reference	FOR FURTHER SO	W1 45 5 1	cation of Transmittal of International
CM2107F/JH			FOR FURTHER AC	IION Preliminar	ry Examination Report (Form PCT/IPEA/416)
International application No.			International filing date (da	ay/month/year)	Priority date (day/month/year)
PCT/US	99/108	354	17/05/1999		30/09/1998
International C11D3/3		nt Classification (IPC) or na	tional classification and IPC		
Applicant	•				
THE PRO	OCTE	R & GAMBLE COMP	ANY et al.		
		ntional preliminary exami mitted to the applicant a		prepared by this Int	ernational Preliminary Examining Authority
2. This l	REPO	RT consists of a total of	5 sheets, including this	cover sheet.	
b	een a	mended and are the bas		sheets containing r	on, claims and/or drawings which have ectifications made before this Authority the PCT).
These	e anne	exes consist of a total of	sheets.		•
3. This r	_		ting to the following item	s:	
1		Basis of the report			
11	_	Priority	atata a catala na acada ka na a		
III IV	_	Lack of unity of invention	•	eity, inventive step	and industrial applicability
V	×	Reasoned statement ur			ventive step or industrial applicability;
VI		Certain documents cité			
VII	\boxtimes	Certain defects in the in	ternational application		
VIII	_		the international applica	ation	
Date of sub	omissio	n of the demand		Date of completion o	of this report
16/03/20	00			28.11.2000	
Name and mailing address of the international preliminary examining authority:				Authorized officer	S STANDES MILITARY
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d				Culmann, J-C	
Fax: +49 89 2399 - 4465				Telephone No. +49 8	39 2399 8487

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/10854

I.	Bas	sis ftherprt							
1.	res _i the	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages:							
	1-8	4 a	as originally filed						
	Cla	Claims, No.:							
	1-1	3 ε	as originally filed						
2.	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.								
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:						
	anslation furnished for the purposes of the international search (under Rule 23.1(b)).								
		the language of pub	olication of the international application (under Rule 48.3(b)).						
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).							
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:								
		contained in the inte	ernational application in written form.						
filed together with the international application in computer readable form.									
	☐ furnished subsequently to this Authority in written form.								
	☐ furnished subsequently to this Authority in computer readable form.								
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosu the international application as filed has been furnished.								
		☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
4.	The amendments have resulted in the cancellation of:								
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.			n established as if (some of) the amendments had not been made, since they have been						

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/US99/10854

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: No:

Claims 7

Claims 1-6,8-13

Inventive step (IS)

Yes:

Claims

No:

Claims 7

Industrial applicability (IA)

Yes:

Claims 1-13

No: Claims

- 2. Citations and explanations see separate sheet
- VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

- ٧. Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability
- 1. Document D1 (WO 97/24427) describes compositions (see Examples 2, 3, 5 and 6) comprising an immobilized enzyme (see Example 1, an endoglucanase obviously from the strain Humicola insolens, see D1 on page 5 - reacted with PEG of Mw 5,000 which is a soil release agent according to the description of the present application see on page 28) and various polymers (ethoxylated surfactants, MA/AA, CMC, copolymers of vinylimidazole and vinylpyrrolidone, HMWPEO, PVP, PGMS).

The subject-matter of claims 1 to 6 and 8 to 13 lacks novelty in the sense of Article 33(2) PCT.

2. Document D2 (DE-A-21 09 881) describes compositions comprising the reaction product of (i) an enzyme from the strain Bacillus subtilisis with (ii) a copolymer of maleic acid and styrene and (iii) a fatty acid ammonium salt derivative (Hyamin 1622), admixed with (see the table on page 18 of D2) CMC and a polymeric surfactant.

The subject-matter of claims 1, 2, 4 to 6, and 8 to 13 lacks novelty in the sense of Article 33(2) PCT.

- 3. Document D3 (WO 98/00500) relates to chemical entities as defined in the present application, comprising a deposition aid having a high affinity for fibres and attached/absorbed to a benefit agent (see claim 1 of D3). In fully formulated detergent composition, further polymers like antiredeposition agents (e.g. cellulosic polymers), soil release agents, decoupling polymers (see D3 on page 15) may be introduced.
- 3.1. It may be noted that all the details provided by the Applicant in his application about the "chemical entity" may be retrieved from this citation.

- 3.2. The subject-matter of the present application differs from this citation only in that a polymer must be present.
- 3.3. The Applicant further alleges of a synergetical effect between said "chemical entity" and said polymer and provides a theory therefor.
- 3.4. That synergy is not supported by evidence.
- 3.5. The theory is merely a plausible explanation of this not supported allegation and represents a technical information which on its own cannot be patentable.
- 3.6. The subject-matter of claim 7 represents nothing more than a description of a linking polymer, possibly differing from those suggested in D3, but which are nevertheless commercially available, and which selection does not (since there is no support therefor) the presence of any inventive contribution over the linking polymers suggested in D3; thus said subject-matter cannot amount to an inventive step in the sense of Article 33(3) PCT.

VII. Certain defects in the international application.

Some citations are not identified by their publication number (see on pages 9, 10, 23, 57, 63, 64, 65, 66, 68, 70, 72, 73, 74, 75, 78).

The requirements of Rule 5.1 a) ii) PCT are not met, the documents D1 to D3 are not identified in the description and the relevant background art disclosed therein is not briefly discussed.



WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:
C11D 3/386, C12N 9/42, C11D 3/37
A1
(11) International Publication Number: WO 00/18865
(43) International Publication Date: 6 April 2000 (06.04.00)
(21) International Application Number: PCT/US99/10854 (81) Designated States: AE, AL, AM, AT, AT (Utility model), AU

21) international Application Number.

(22) International Filing Date: 17 May 1999 (17.05.99)

(30) Priority Data:
PCT/US98/20491 30 September 1998 (30.09.98) US

(71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BUSCH, Alfred [DE/BE]; Handelsstraat 210, B-1840 Londerzeel (BE). SMETS, Johan [BE/BE]; Bollenberg 79, B-3210 Lubbeek (BE). BAECK, Andre, Cesar [BE/BE]; Putsesteenweg 273, B-2820 Bonheiden (BE).

(74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US). (81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: LAUNDRY DETERGENT AND/OR FABRIC CARE COMPOSITIONS COMPRISING A CHEMICAL ENTITY, WHICH CONTAINS A DEPOSITION AID, AND A POLYMER

(57) Abstract

The present invention relates to laundry detergent and/or fabric care compositions comprising a chemical entity and a polymer; wherein the chemical entity comprises a deposition aid having a high affinity for cellulose and a benefit agent. These compositions provide improved fabric cleaning including stain/soil removal, anti-redeposition of soils and/or whiteness maintenance and improved fabric care including color care and/or fabric softness.

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